

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.  
SHUTTERS ARE NOT REQUIRED.

**ES-SW340 (L.M.I.)**  
**THERMAL ALUMINUM HORIZONTAL SLIDING WINDOW**

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE  
COMBINATIONS OF H.R./H.R. OR HORIZ. SLIDING WITH OTHER  
WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING  
F.B.C. APPROVED MULLIONS IN BETWEEN.  
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL  
WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA  
BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE  
DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT  
LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS  
AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE  
MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.  
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT  
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE  
REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION  
FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY  
OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR  
WATER INFILTRATION RESISTANCE ETC.  
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,  
AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION  
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.  
LABELING TO COMPLY WITH SECTION 1709.9.2.

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND  
INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION  
PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED  
ON THIS DOCUMENT.  
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF  
ALTERED BY ANY MEANS.  
C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED  
ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.)  
FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER  
USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED  
ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE  
SPECIFIC DRAWINGS FOR REVIEW.  
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF  
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



Sealed: 10/20/2023

FL #20383

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)  
**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

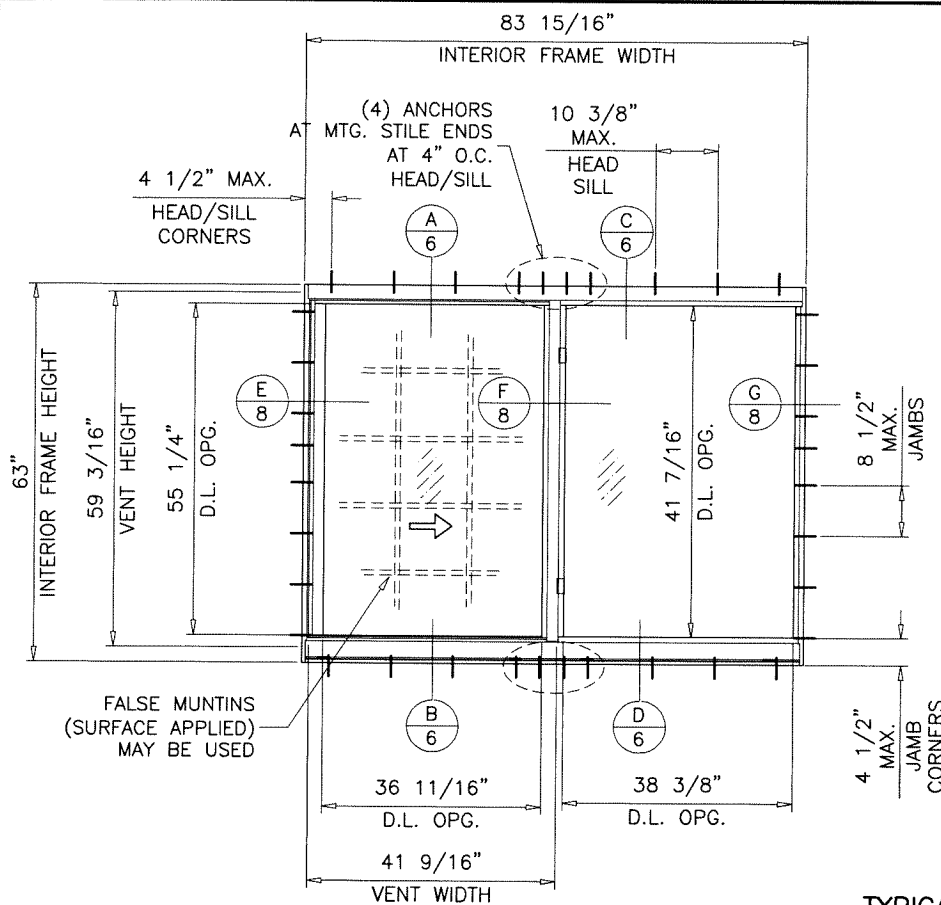
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A	02.07.18	A	02.07.18	A	UPDATED TO 2017 FBC
					UPDATED TO 2020 FBC
					NAIL FIN OPTION ADDED
					UPDATED TO 2023 FBC

date: 04-19-16  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

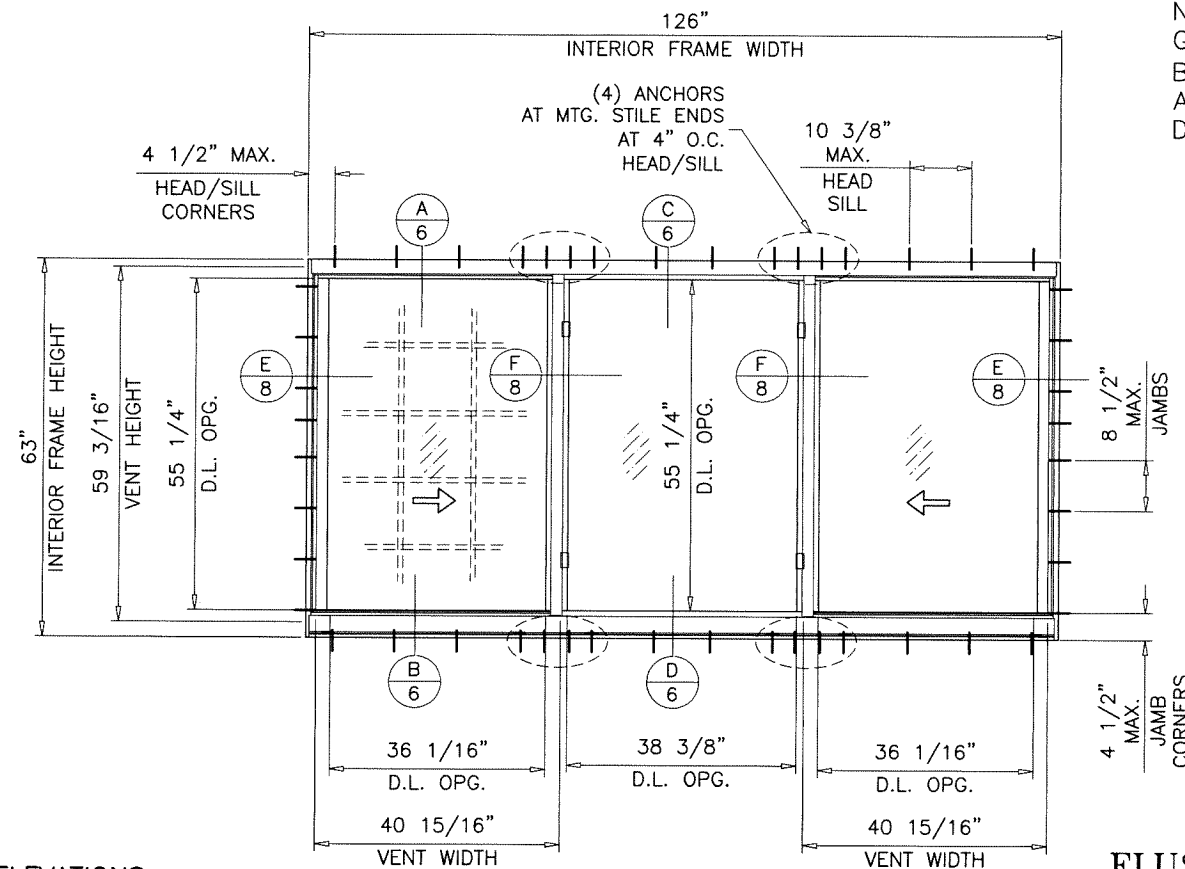
drawing no.  
**W16-23**

sheet 1 of 14

COMP-ANL\W16-23-ES



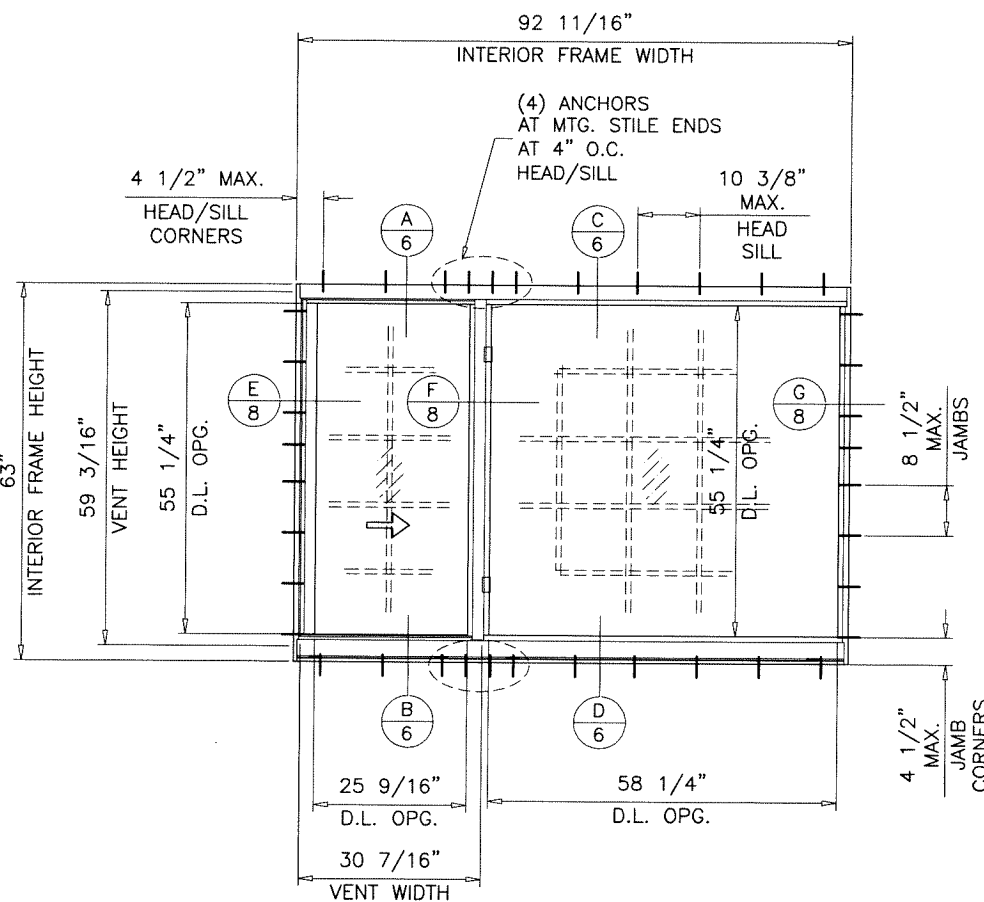
**TYPICAL ELEVATIONS**  
(EQUAL LITES)



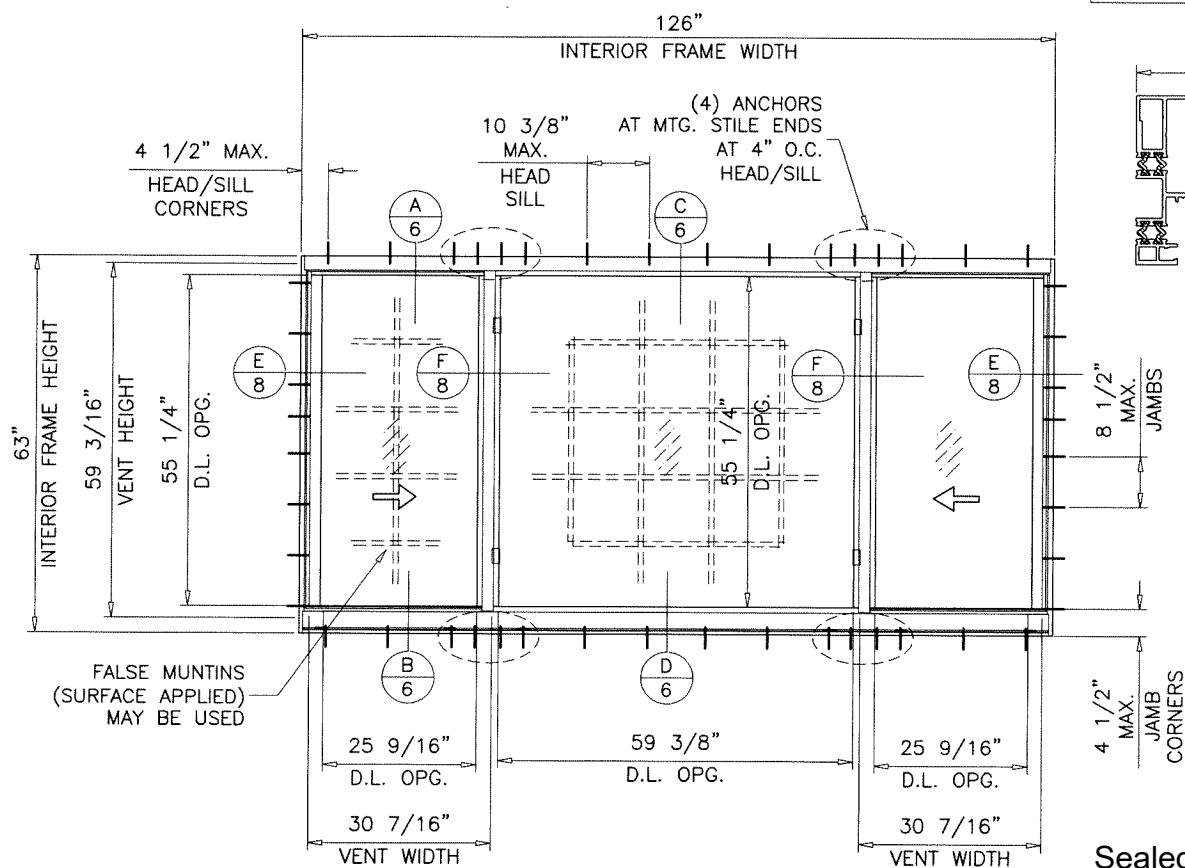
### FLUSH FRAMES

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
(FOR SIZES SHOWN OR SMALLER) - 90.0 PSF

ALTERNATE SIZES CAN NOT EXCEED VENT OR FIXED SIZES  
OF SHOWN ELEVATIONS.

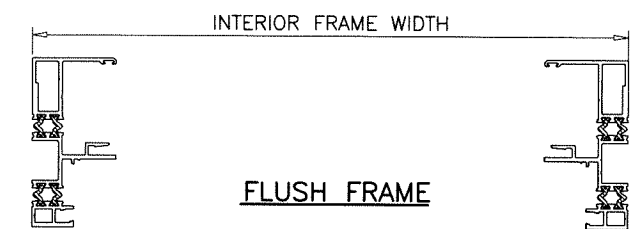
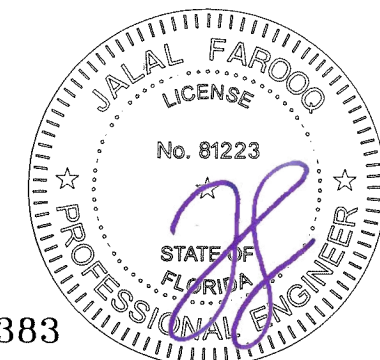


**TYPICAL ELEVATIONS**  
(UNEQUAL LITES)



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NOTE:  
GLASS CAPACITIES ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

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revisions:  
no. date by description

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dr. by: TARIQ

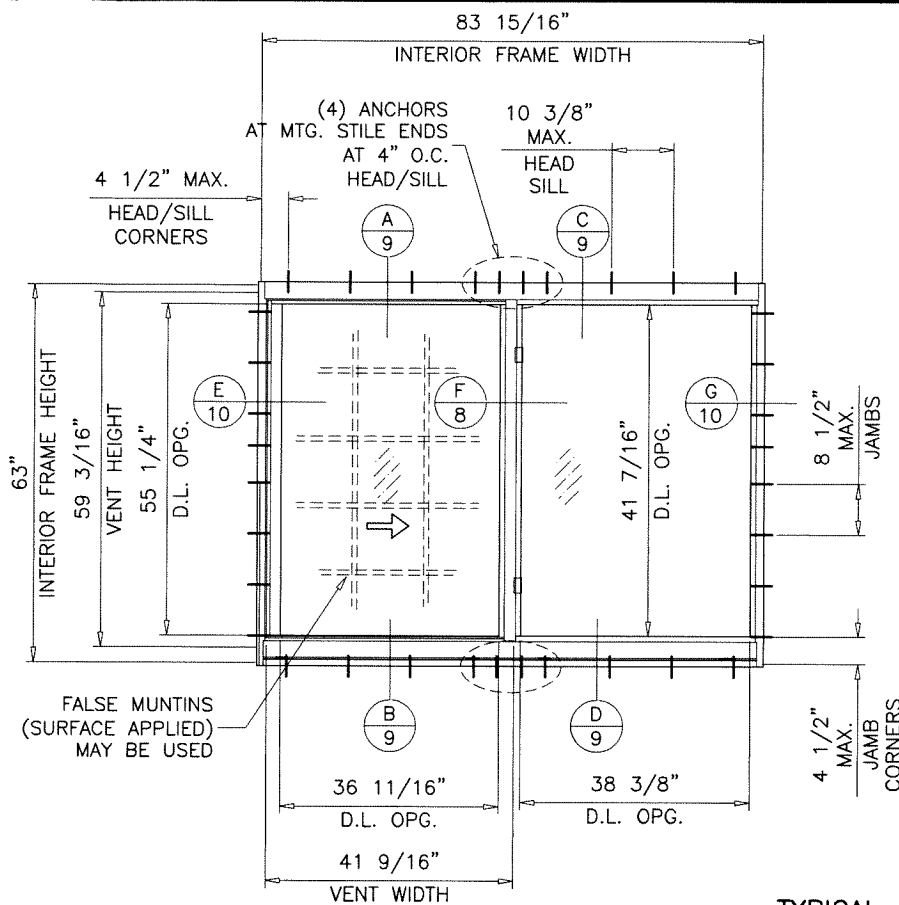
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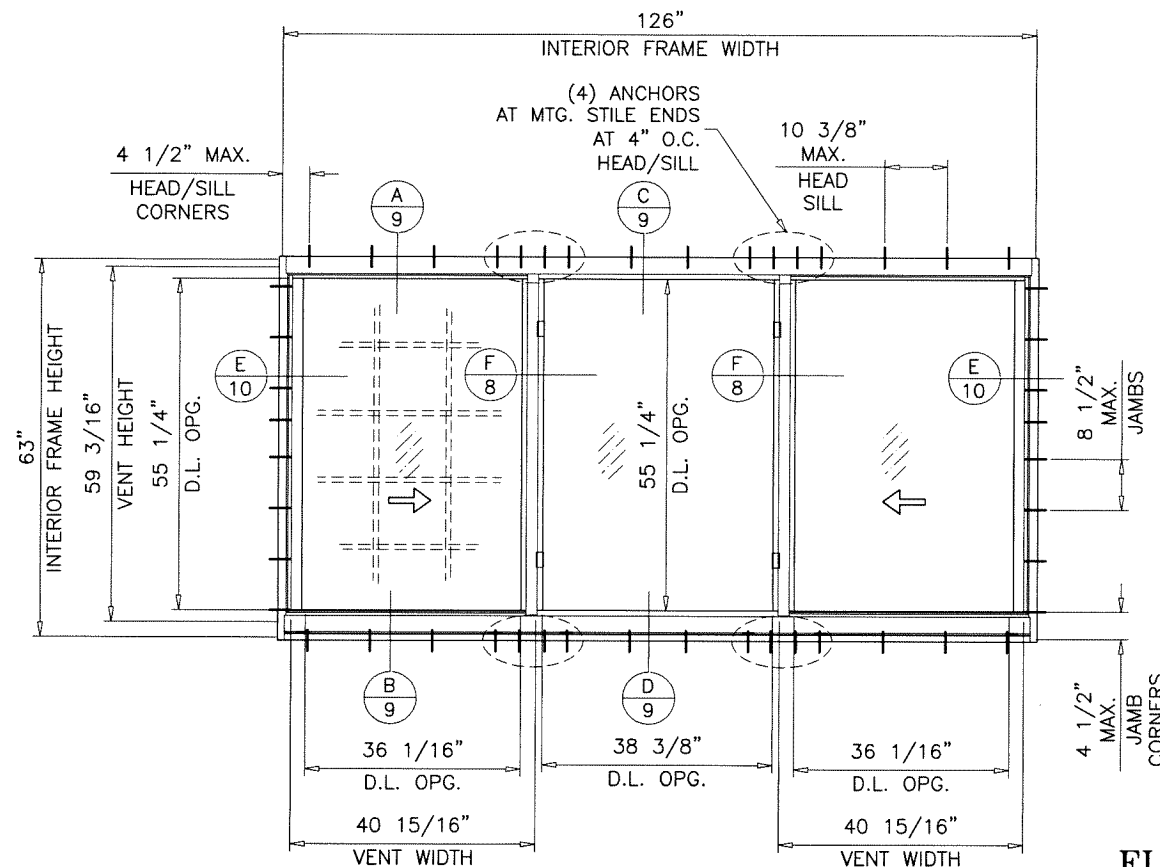
**W16-23**

sheet 2 of 14

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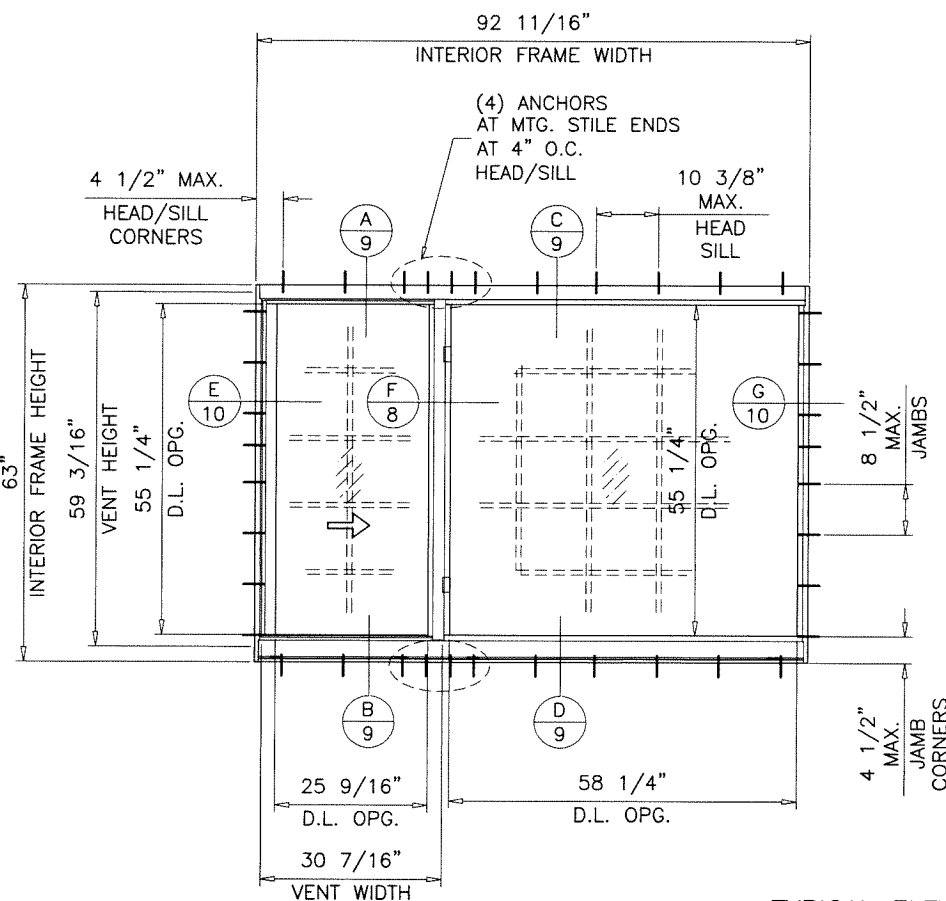


**TYPICAL ELEVATIONS**  
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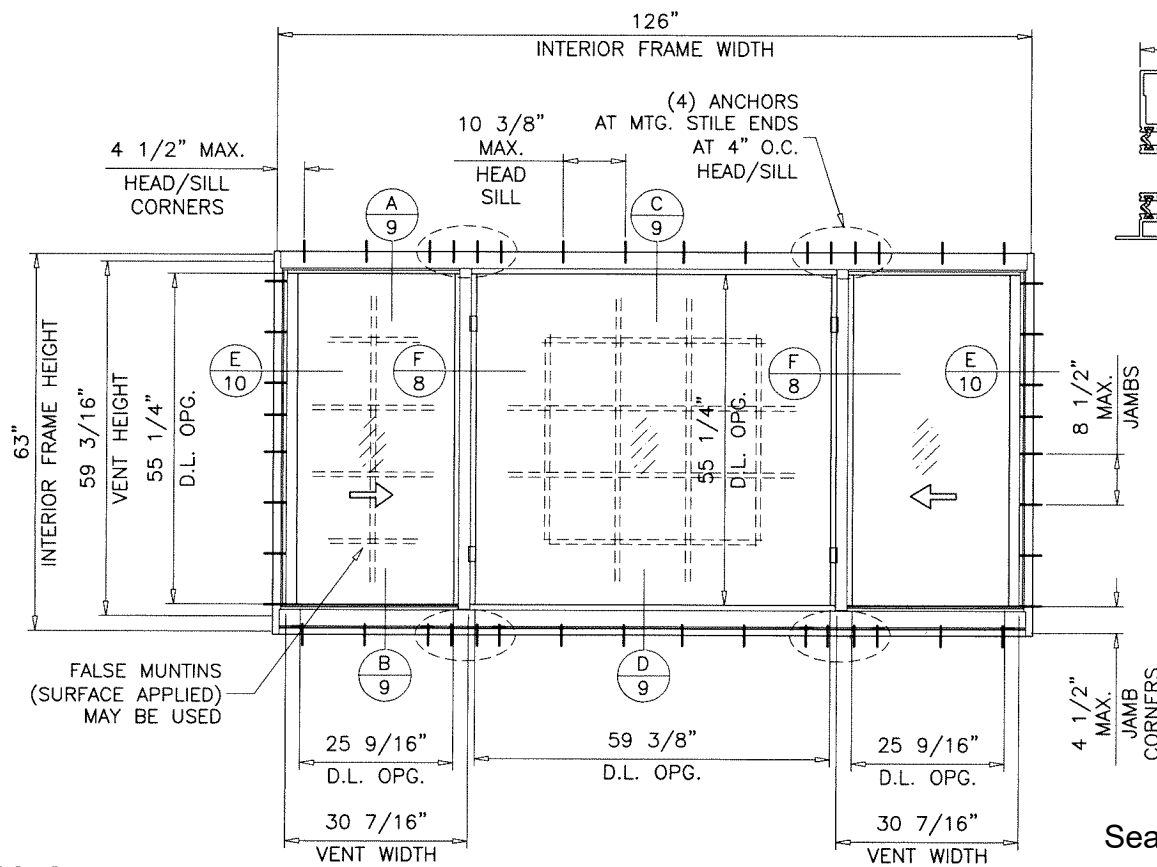


### FLANGE FRAMES

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF  
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OF SHOWN ELEVATIONS.

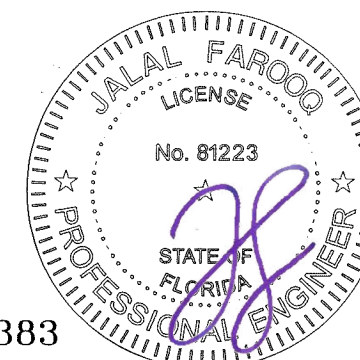


**TYPICAL ELEVATIONS**  
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**W16-23**

sheet 3 of 14

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MIAMI, FLORIDA 33173

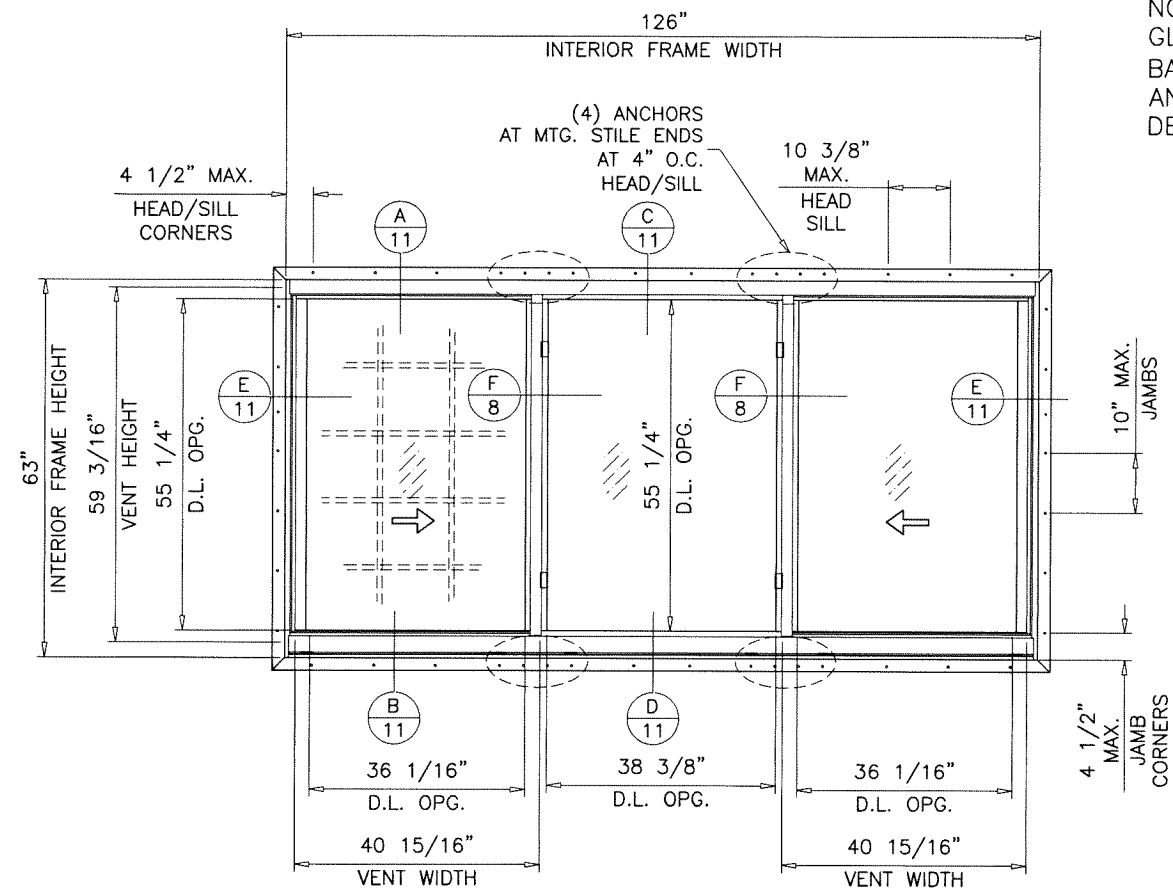
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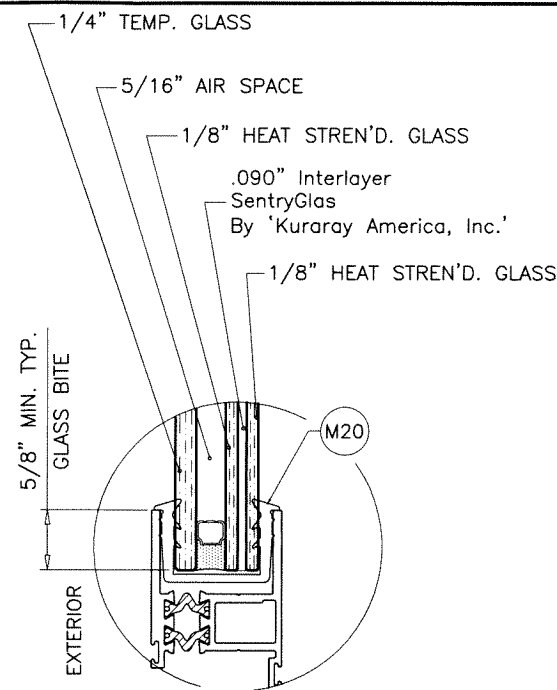
TEL. (305) 262-6978

FAX. (305) 262-6978

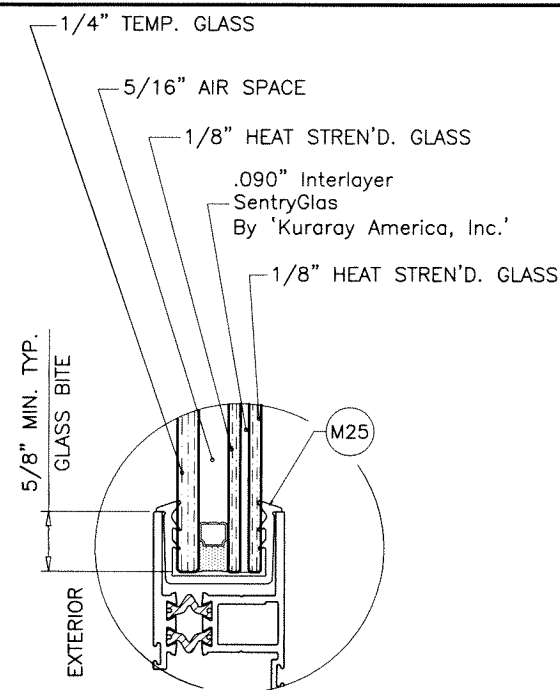
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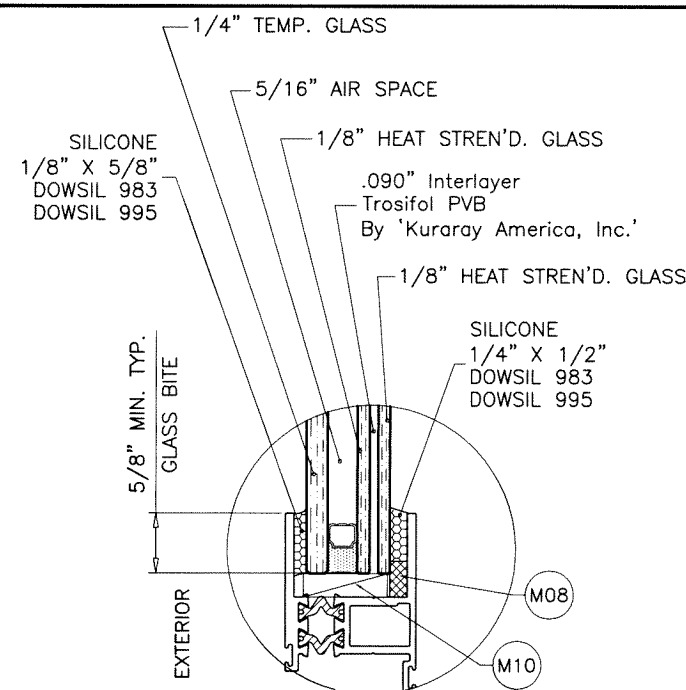




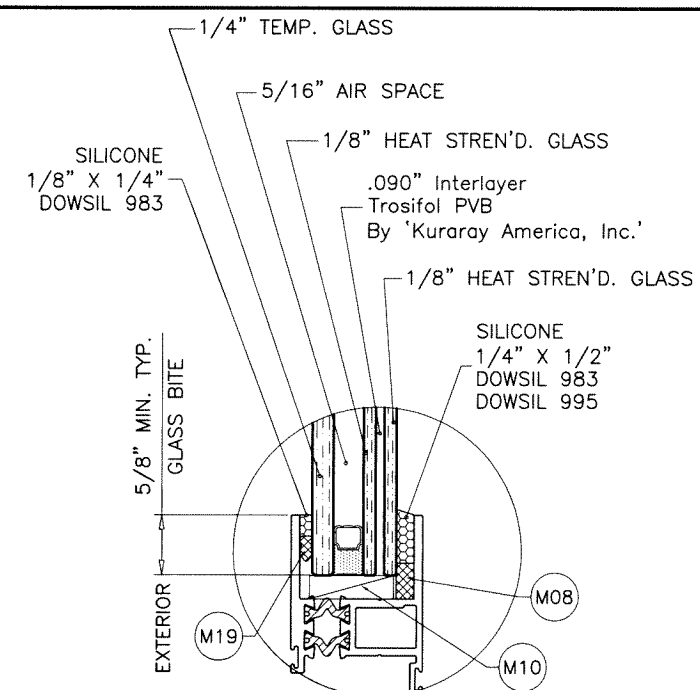
**VENT**  
(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



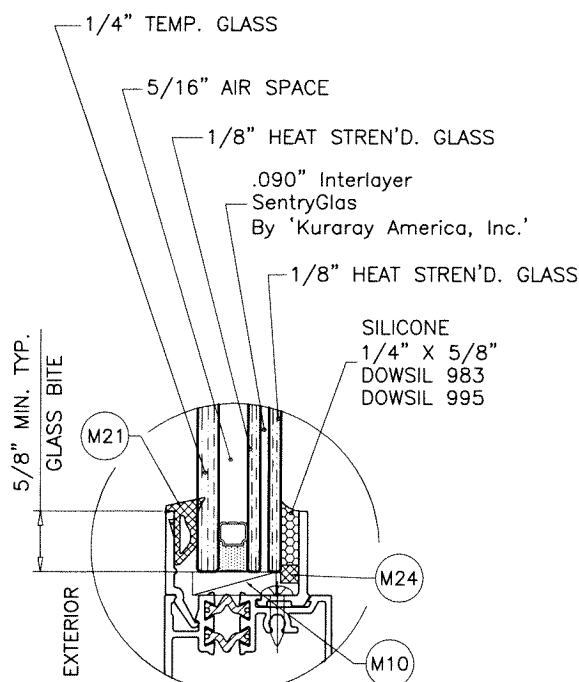
**VENT**  
(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



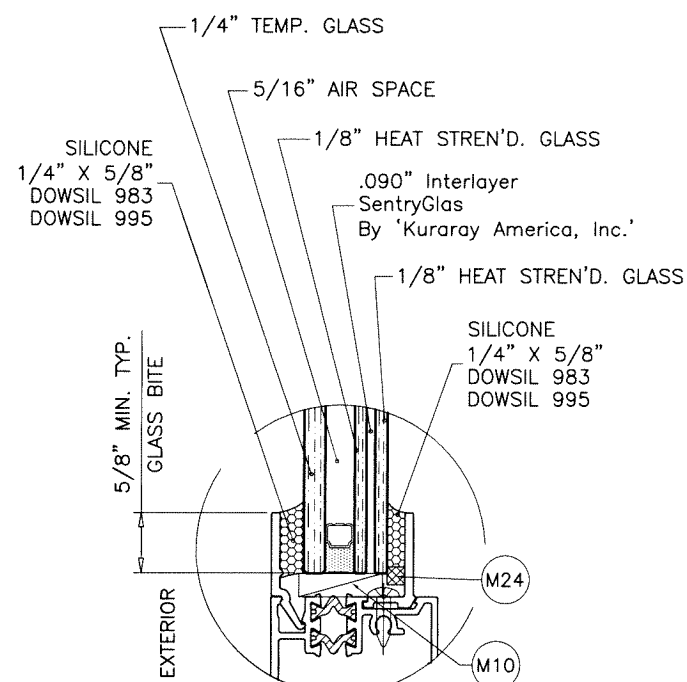
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(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



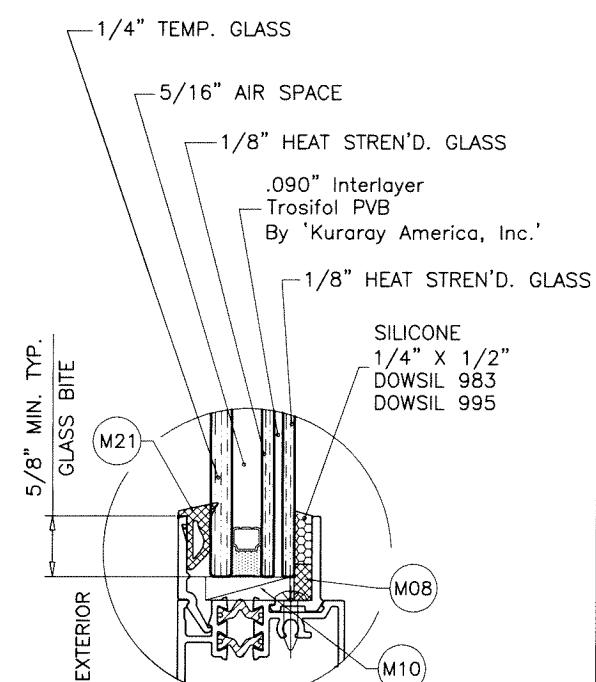
**VENT**  
(EQUAL LITES ONLY)  
(MAX. DESIGN LOAD = +70.0, -75.0 PSF)



**FIX. LITE**  
(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



**FIX. LITE**  
(EQUAL & UNEQUAL LITES)  
(MAX. DESIGN LOAD = +80.0, -90.0 PSF)



**FIX. LITE**  
(EQUAL LITES ONLY)  
(MAX. DESIGN LOAD = +70.0, -75.0 PSF)

#### GLAZING DETAILS

7/8" OVERALL INSUL. LAM. GLASS

#### 5/16" AIR SPACE CONSISTING OF:

##### SPACER:

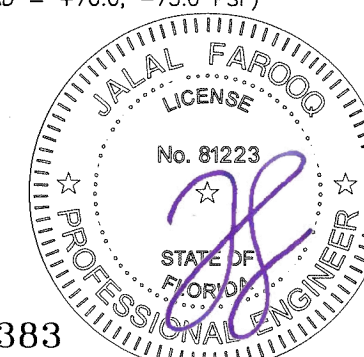
'HELIMA' LOW PROFILE ALUMINUM SPACER  
BY 'LINGERMANN GMBH'  
AROUND THE PERIMETER OF THE GLASS.

##### PERIMETER SEALANT:

SILICONE  
DOWSIL 791  
GE 2000

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date: 04-19-16

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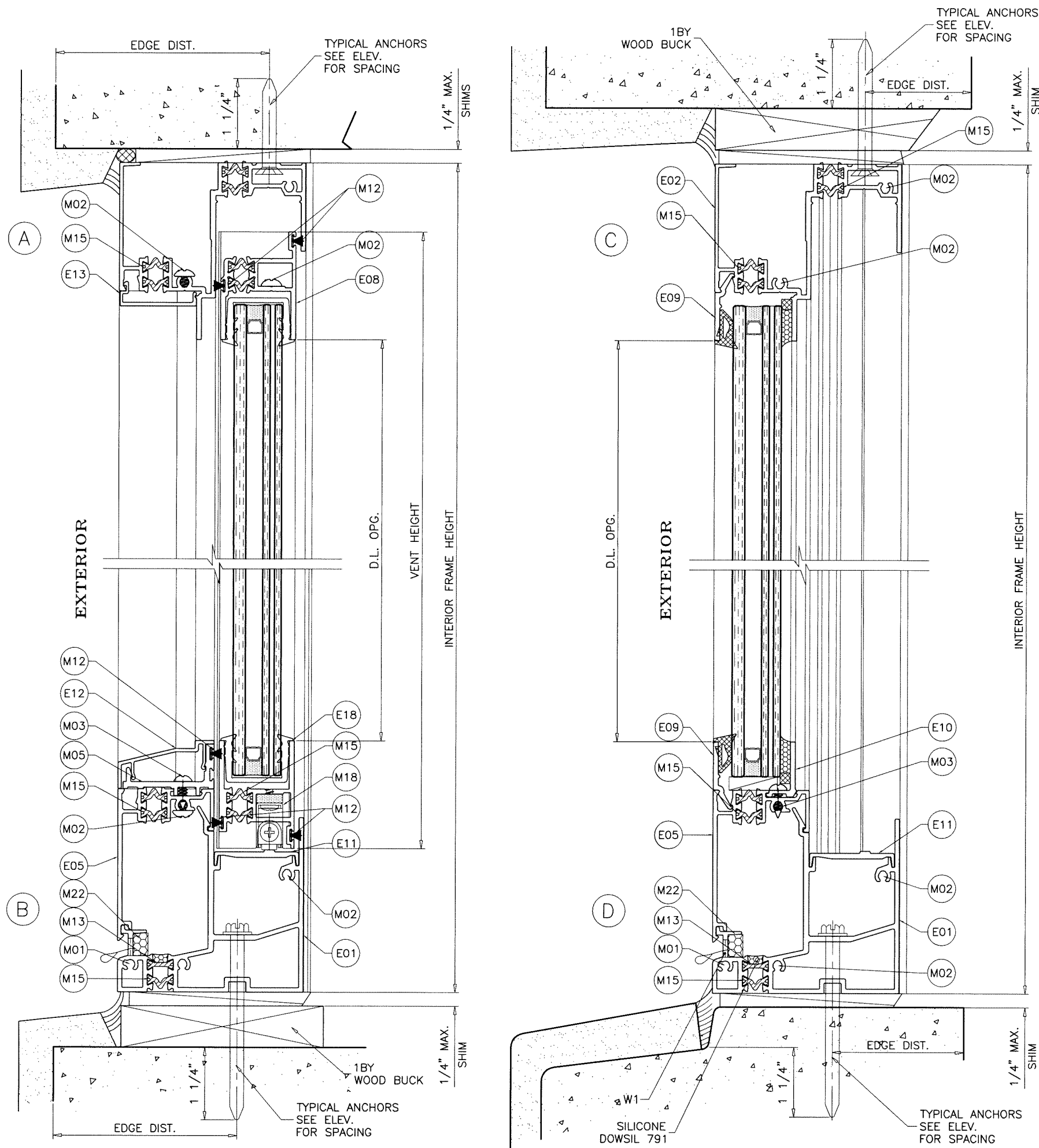
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chk. by:

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sheet 5 of 14

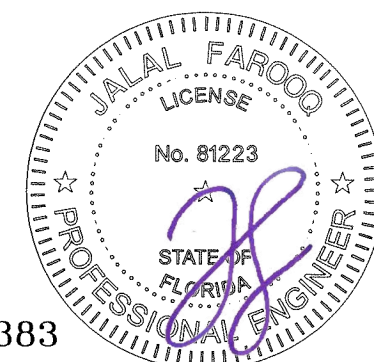


**WEEPHOLES:**

- W1 = (2) 3/16" X 2" WEEPHOLES AT EACH VENT
- (2) 3/16" X 2" WEEP HOLES AT FIX. LITE

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drawing no.  
**W16-23**  
sheet 6 of 14

COMP-ANL\W16-23-ES



WOOD BUCKS AND METAL STRUCTURE NOT BY 'E.S. WINDOWS'  
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM  
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

**#14 DIA. CRETE-FLEX SS4 BY 'DEWALT'** ( $F_u=190$  KSI,  $F_y=127$  KSI)

**1/4" DIA. AGGRE-GATOR 300 BY 'DEWALT'** ( $F_u=96$  KSI,  $F_y=57$  KSI)

**1/4" DIA. ULTRACON+ BY 'DEWALT'** ( $F_u=164$  KSI,  $F_y=148$  KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR BLOCKS (JAMBS)

**1/4" DIA. ULTRACON SS4 410 BY 'DEWALT'** ( $F_u=190$  KSI,  $F_y=164$  KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONC. OR BLOCKS  
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)  
1-1/4" MIN. EMBED INTO CONC. OR GROUT-FILLED BLOCKS (JAMBS)

**1/4" DIA. BI-FLEX 300 SELF DRILLING SCREWS BY 'DEWALT'** ( $F_u=96$  KSI,  $F_y=57$  KSI)

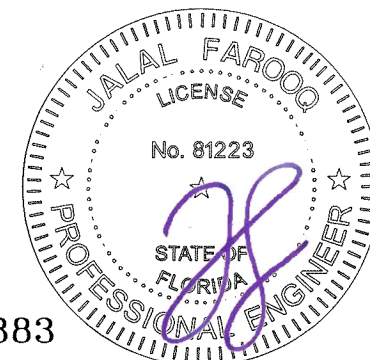
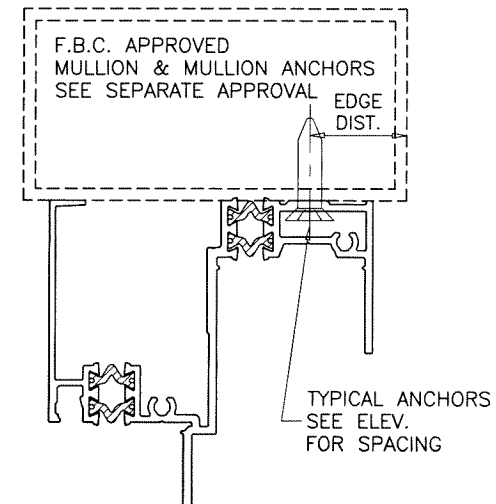
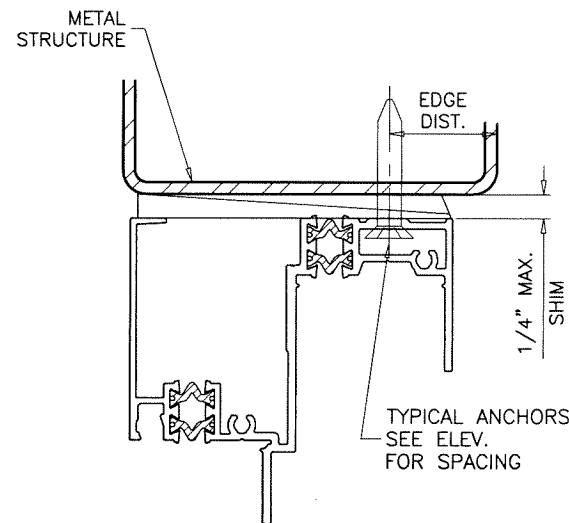
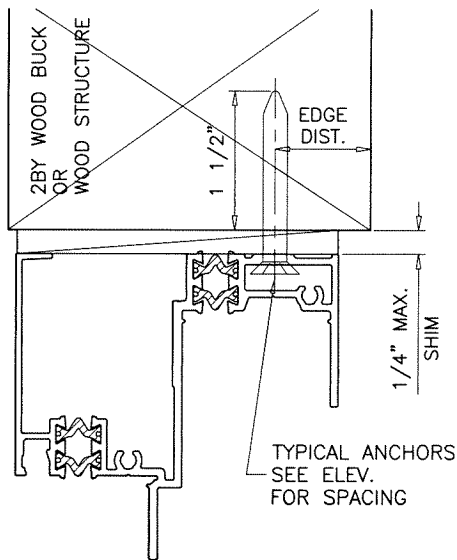
**1/4" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT'** (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS  
OR  
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)  
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
STEEL: 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)  
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**ANCHOR EDGE DISTANCES**

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
INTO WOOD STRUCTURE = 1" MIN.  
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.  
CONCRETE AT HEAD, SILL OR JAMBS  $f'_c = 3000$  PSI MIN.  
C-90 HOLLOW/FILLED BLOCK AT JAMBS  $f'_m = 2000$  PSI MIN.



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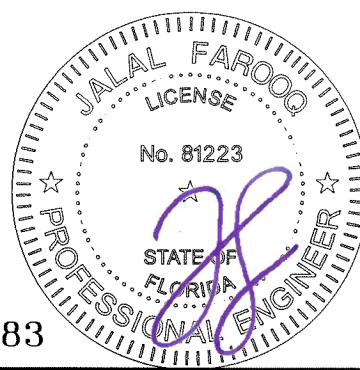
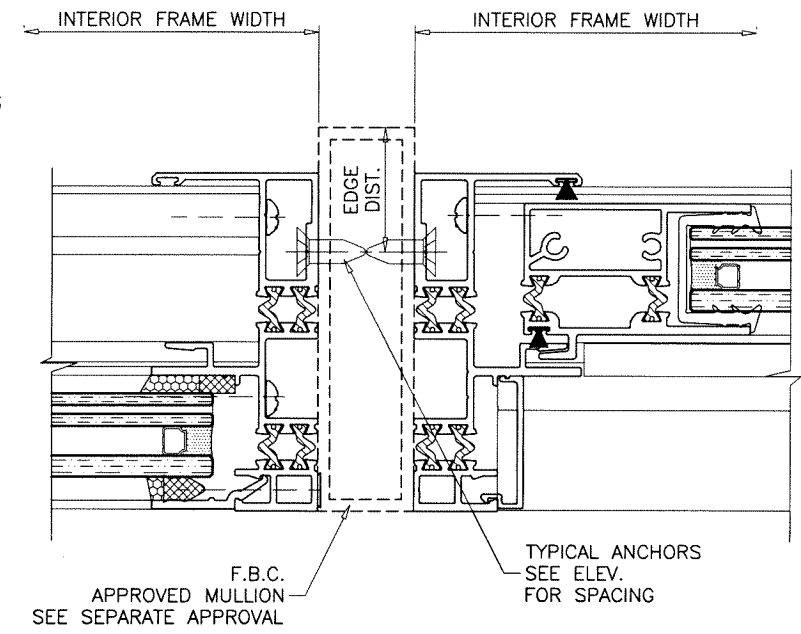
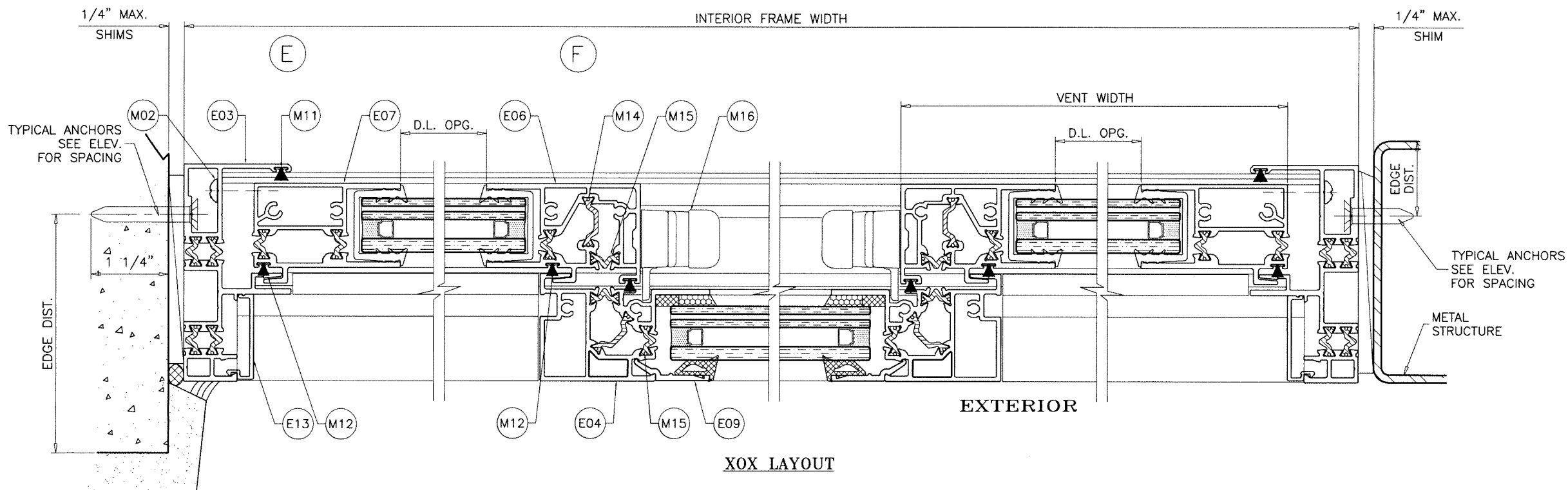
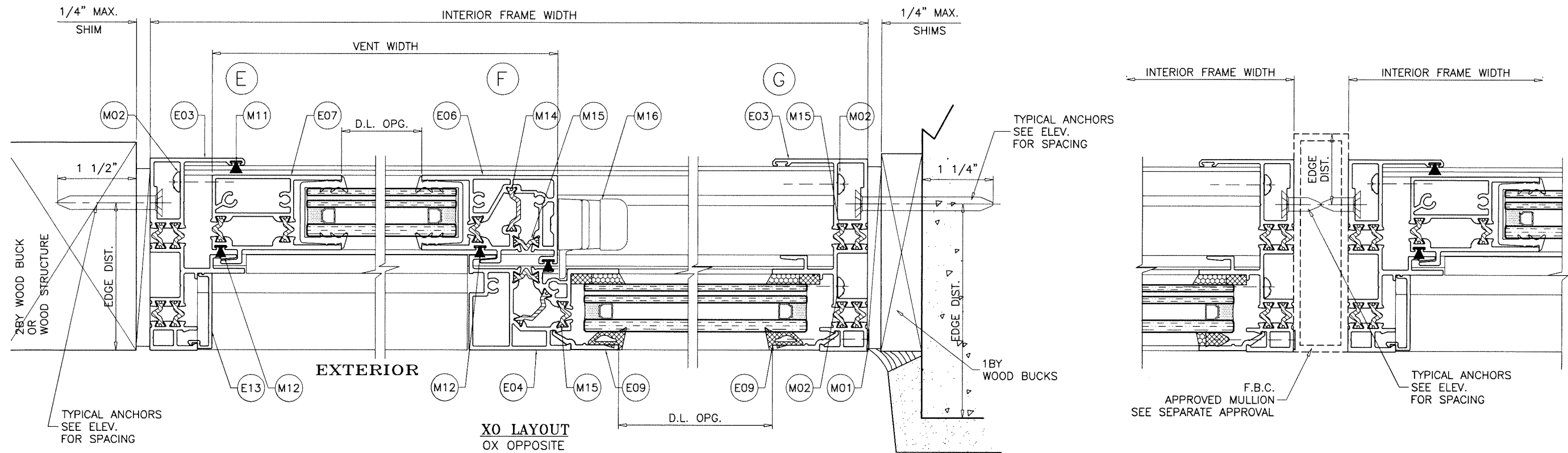
W16-23

sheet 7 of 14

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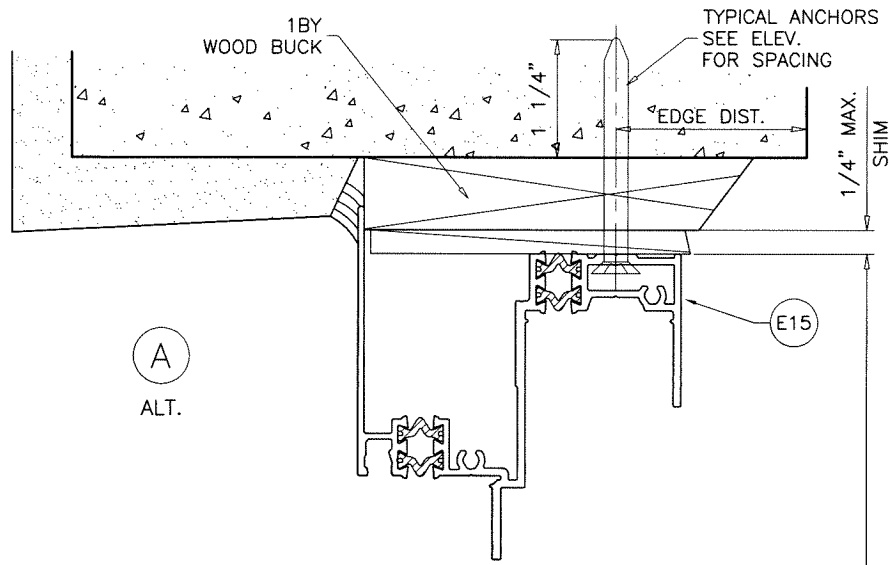
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sheet 8 of 14



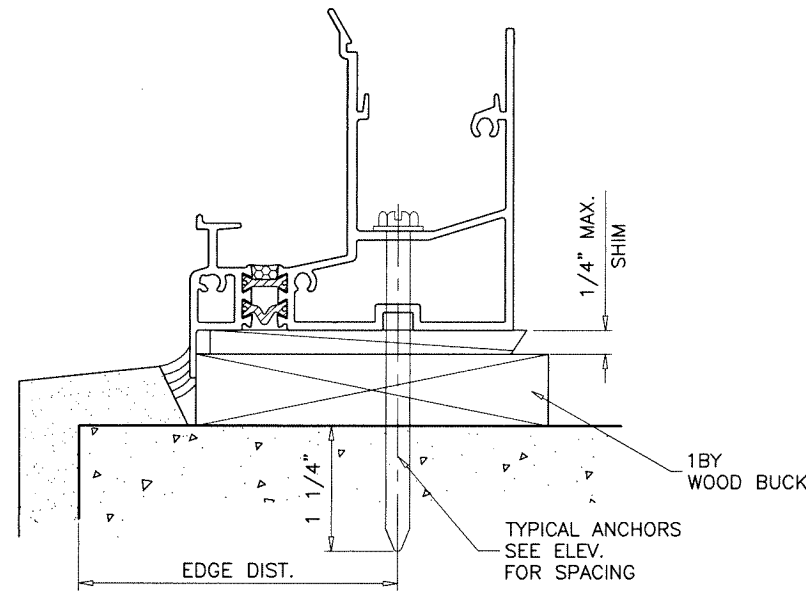
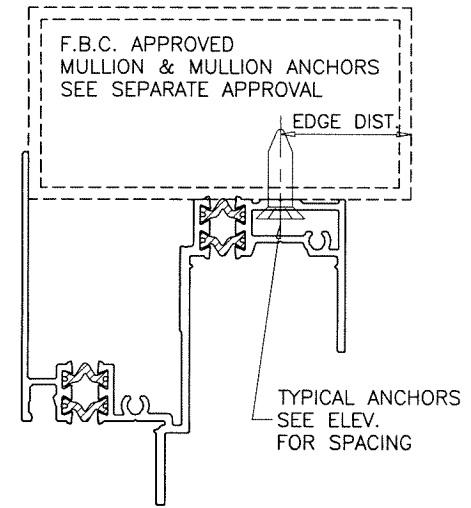
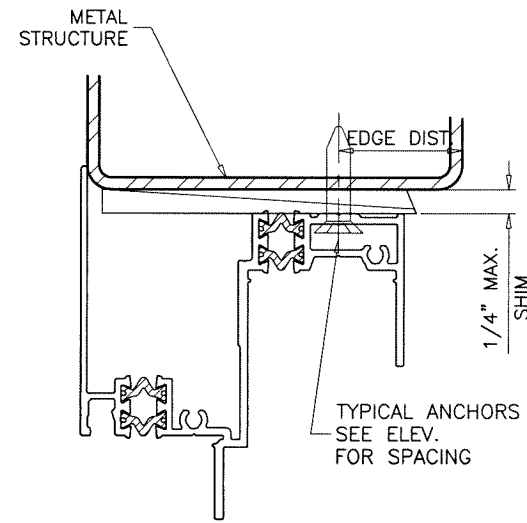
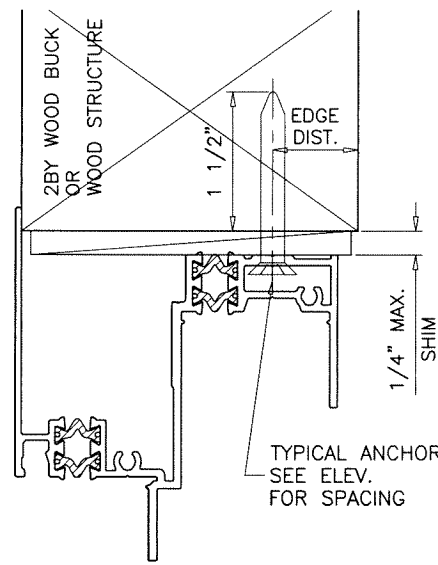
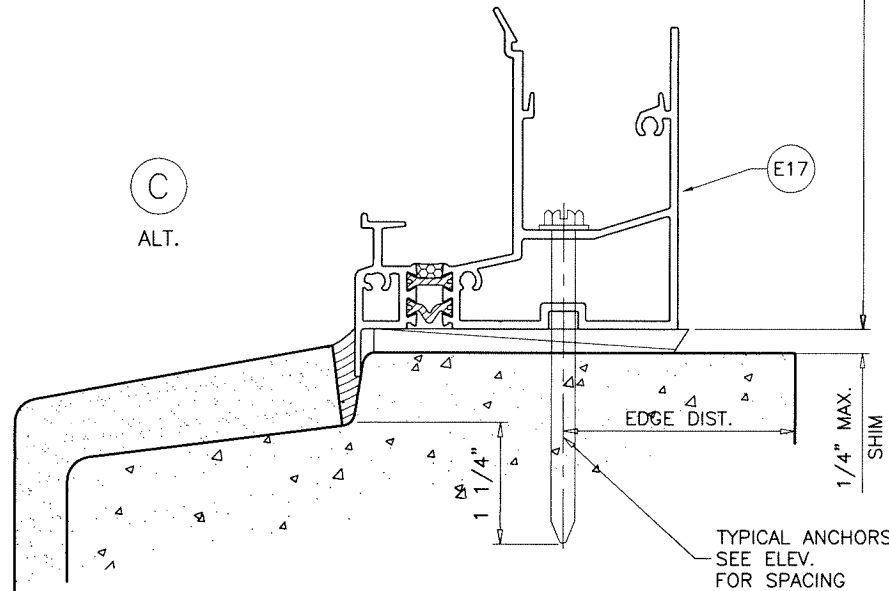
EXTERIOR

A  
ALT.



INTERIOR FRAME HEIGHT

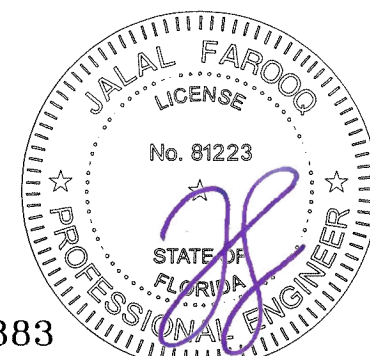
C  
ALT.



INSTALLATION DETAILS FLANGE FRAMES  
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

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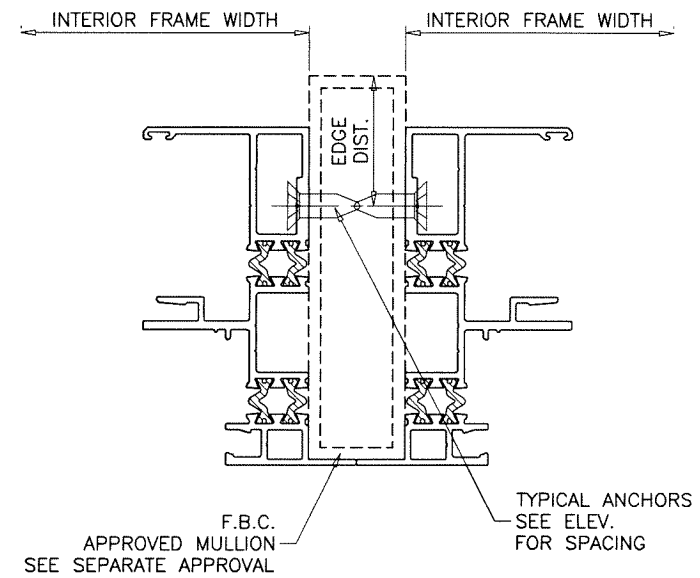
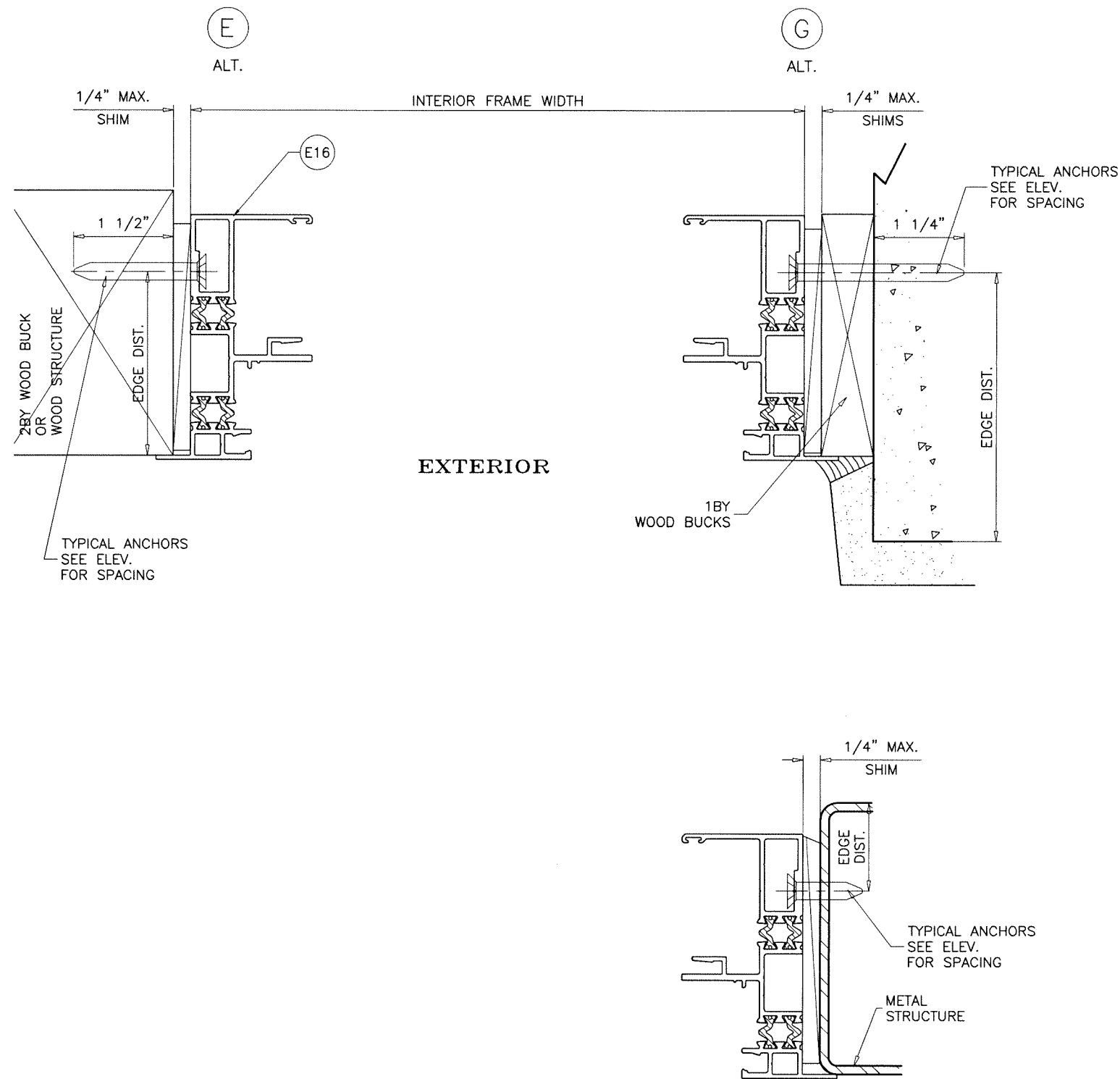
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dr. by: TARIQ  
chk. by:

drawing no.  
W16-23  
sheet 9 of 14

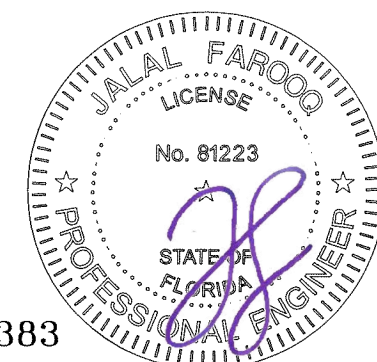
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL W16-23-ES



**INSTALLATION DETAILS FLANGE FRAMES**  
SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

Sealed: 10/20/2023

FL #20383



**AL-FAROOQ CORPORATION**  
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COMP-ANL W16-23-ES

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ES-SW340 THERMAL ALUMINUM SLIDING WDW. (L.M.I.)

**E.S. WINDOWS, LLC**  
3550 N.W. 49 STREET  
MIAMI, FL. 33142  
TEL. (305) 638-5151 FAX. (305) 638-5158

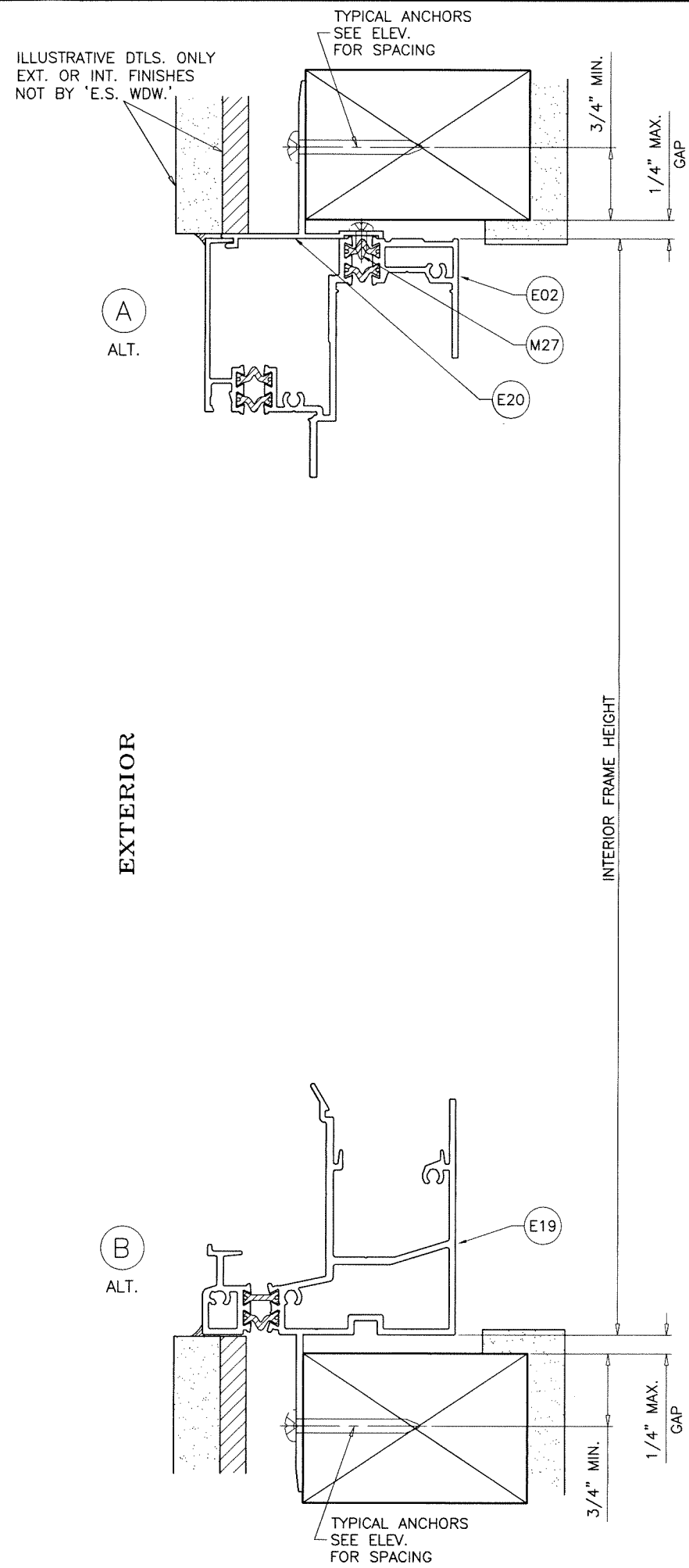
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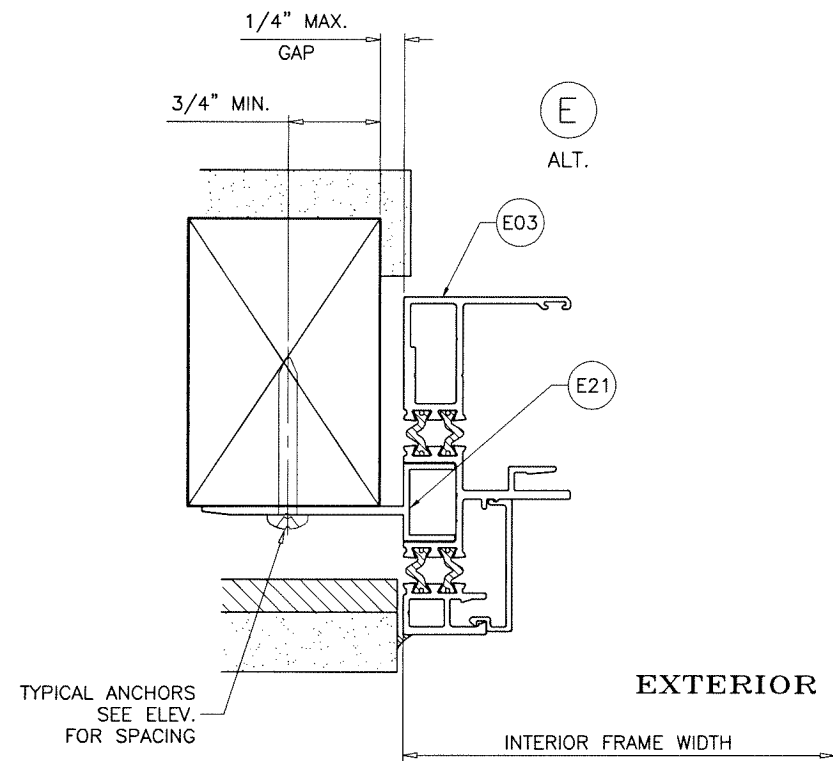
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dr. by: TARIQ  
chk. by:

drawing no.  
**W16-23**  
sheet 10 of 14



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING  
**#12 WOOD SCREWS** (GRADE 2 CRS)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD



**INSTALLATION DETAILS FLUSH FRAMES WITH NAIL FINIS**  
 SEE SHEETS 6 THRU 8 FOR WINDOW DETAILS

Sealed: 10/20/2023

FL #20383



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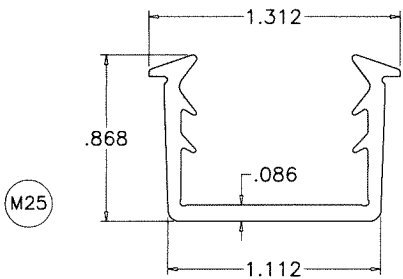
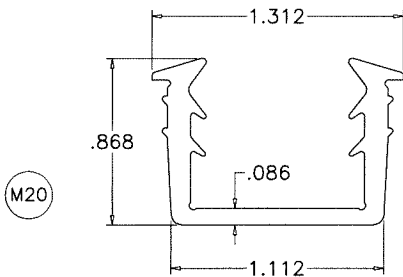
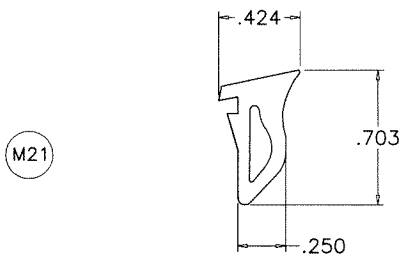
drawing no.  
**W16-23**  
 sheet 11 of 14



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E01	ES-SW340-501	1	FRAME SILL FLUSH	6063-T6	-
E02	ES-SW340-505	1	FRAME HEAD FLUSH	6063-T6	-
E03	ES-SW340-502	2	FRAME JAMB FLUSH	6063-T6	-
E04	ES-H340-507	AS REQD.	FIX. MEETING RAIL	6063-T6	-
E05	ES-SW340-503	-	FIXED BOTTOM	6063-T6	-
E06	ES-H340-508	-	VENT SIDE RAIL	6063-T6	-
E07	ES-SW340-504	2/ VENT	VERTICAL RAIL	6063-T6	-
E08	ES-H340-510	1/ VENT	VENT TOP RAIL	6063-T6	-
E09	ES-H340-003	4/ LITE	GLASS STOP	6063-T5	-
E10	ES-SW340-005	4/ LITE	HORIZONTAL FIXED GLASS STOP	6063-T6	-
E11	ES-SW340-006	1/ VENT	TRACK	6005-T5	-
E12	ES-SW340-007	-	COVER	6063-T5	-
E13	ES-H340-021	-	HORIZONTAL/VERTICAL TRIM	6063-T5	-
E14	ES-H340-007	-	TRIM FOR SCREEN	6063-T6	-
E15	ES-H340-506	1	FRAME HEAD FLANGE	6063-T6	-
E16	ES-SW340-506	2	FRAME JAMB FLANGE	6063-T6	-
E17	ES-SW340-505	1	FRAME SILL FLANGE	6063-T6	-
E18	ES-SW340-507	1/ VENT	VENT BOTTOM RAIL	6063-T6	-
E19	ES-SW340-509	1	FRAME SILL FIN	6063-T6	-
E20	ES-SW340-016	AS REQD.	NAIL FIN (HEAD)	6063-T6	-
E21	ES-SW340-015	AS REQD.	NAIL FIN (JAMB)	6063-T6	-
M01	#10 X 1-1/2" FH	AS REQD.	FRAME ASSEMBLY FASTENER	ST/ST	-
M02	#10 X 1" PH	-	FRAME AND FIX. PANEL FASTENERS	ST/ST	-
M03	#8 X 1/2" PH	-	FOR ROLLER, PLASTIC PROFILE AND GLASS STOP	ST/ST	SPACED AT 10" O.C.
M04	#8 X 3/4" FH SMS	-	SWEEP LOCK FASTENER	-	-
M05	ES-SW340-301	-	PLASTIC EXTRUSION	RIGID PVC	-
M08	V2200	AS REQD.	GLAZING TAPE (3/16" X 3/8")	FOAM	-
M10	ES-21-B04A	2 LITE	SETTING BLOCKS	SILICONE	DUROMETER 80±5 SHORE A
M11	W23212NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M12	W23202NK	AS REQD.	WEATHERSTRIP	-	ULTRAFAB
M13	1142	AS REQD.	INSULBAR 12 MM FLAT	POLYAMIDE	ENSINGER
M14	2479	AS REQD.	INSULBAR 20 MM OFFSET	POLYAMIDE	ENSINGER
M15	2531	AS REQD.	INSULBAR 12 MM OFFSET	POLYAMIDE	ENSINGER
M16	3032	1/ VENT	SWEEP LOCK	DIE CAST ALUM	AT 13" FROM EACH END
M17	ES1050-PL1	-	FLAT BOLT	ST/ST	-
M18	RU-340-IR	2/ VENT	TANDEM ROLLER	ST/ST	AT 5" FROM EACH END
M19	ES-SW340-G05	AS REQD.	EXTERIOR GLAZING GASKET	SILICONE	DUROMETER 65±5 SHORE A
M20	ES-H340-G01	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M21	PS-1127E	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M22	ES-SD450-F01	AS REQD.	RETICULATED FOAM (5/8" X 5/8" X 2")	FOAM	-
M24	-	-	GLAZING TAPE (3/16" X 3/16")	FOAM	-
M25	ES-H340-G03	-	GLAZING GASKET	SILICONE	DUROMETER 70±5 SHORE A
M27	#8 X 3/8"	AS REQD.	NAIL FIN FASTENERS AT 3" FROM ENDS & 12" O.C.	ST. STEEL	PH SMS

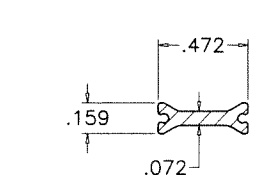
SEALANTS:

FRAME AND VENT CORNERS AND INSTALLATION SCREWS AT SILL  
SEALED WITH 'ACCURA' ARCYLIC LATEX SEALANT BY  
'M-D BUILDING PRODUCTS'.

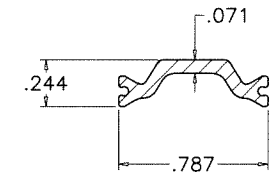


GLAZING GASKETS  
SCALE 1:1

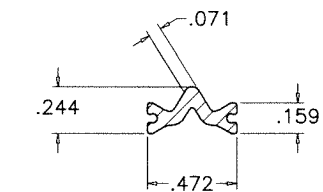
MATERIAL = SILICONE  
HARDNESS = 70±5  
TENSILE STRENGTH = 1075 PSI  
ELONGATION AT BREAK = 167%  
TEAR STRENGTH = 121 Lb/in  
BRITTLENESS TEMPERATURE = -40° F  
COMPRESSION SET = 11% (22h @ 212°F)



M13 12MM FLAT



M14 20MM OFFSET



M15 12MM OFFSET

TECATHERM® 66 GF INSULBARS  
SCALE 1:1

MATERIAL = POLYAMIDE  
TENSILE STRENGTH = 13031 PSI  
RATE OF BURN = .752 IN./MIN.  
SELF IGNITION TEMP. = 793° F  
FLASH IGNITION TEMP. = 781°C  
SMOKE DENSITY = 1.63



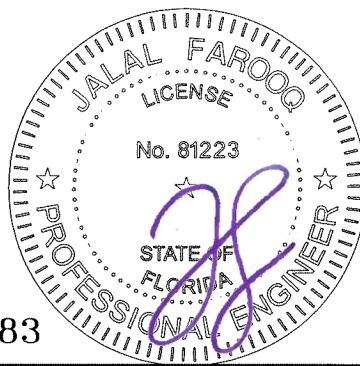
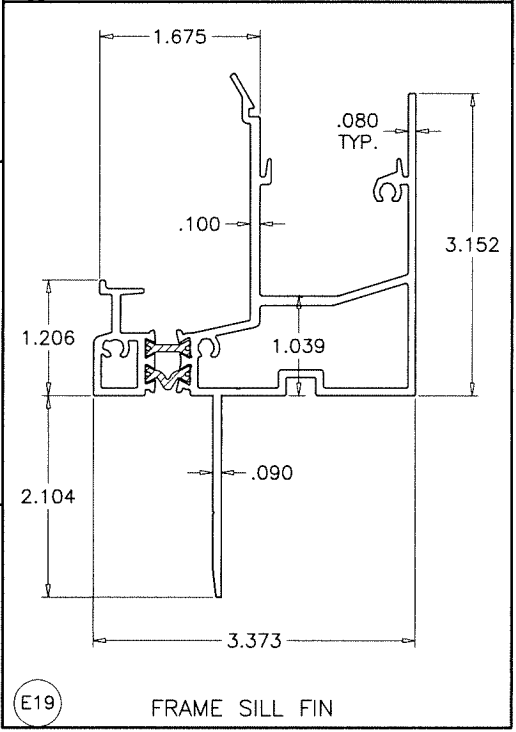
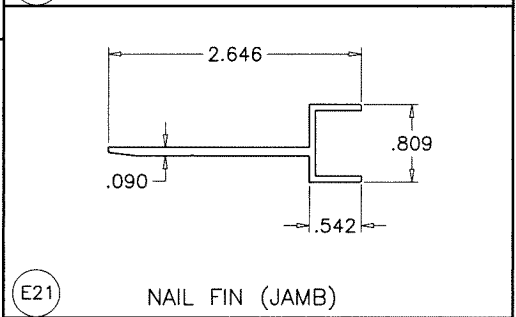
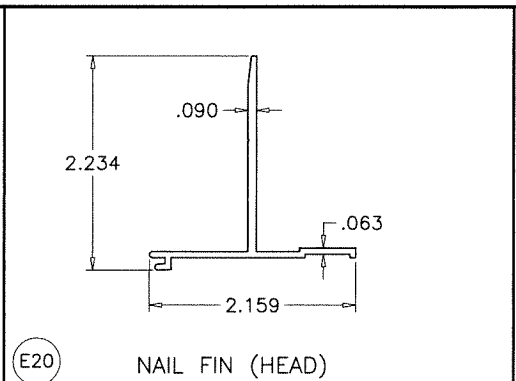
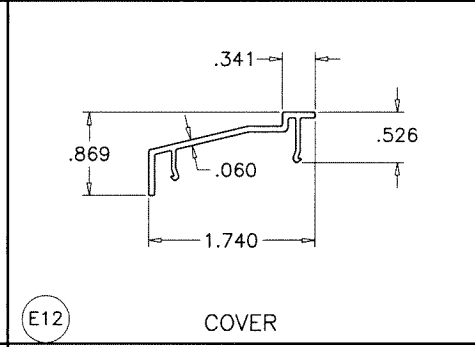
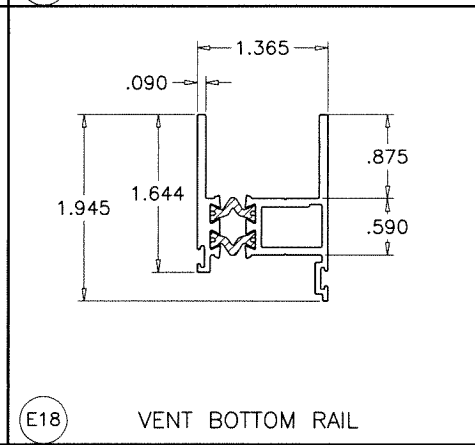
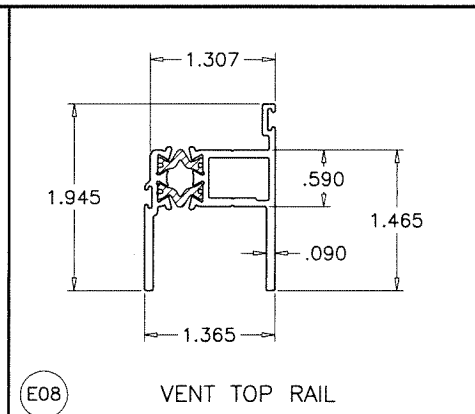
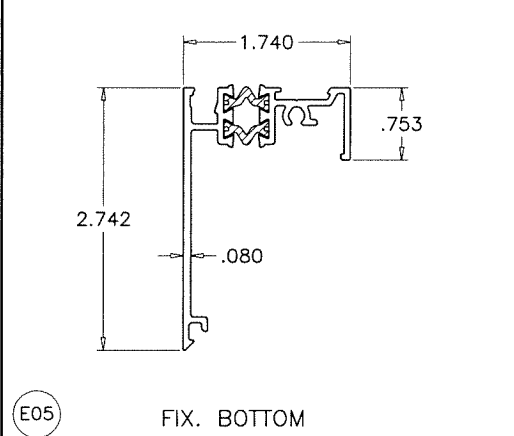
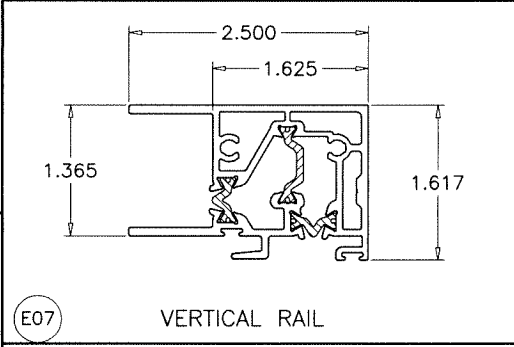
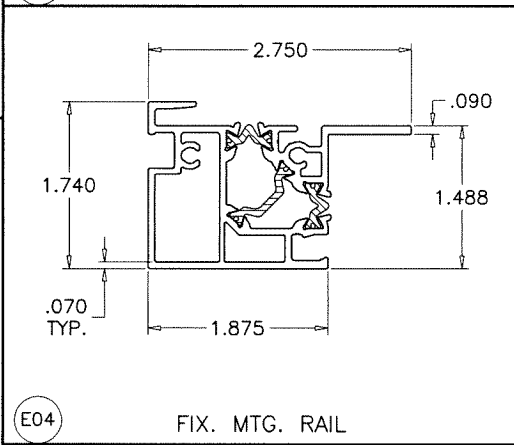
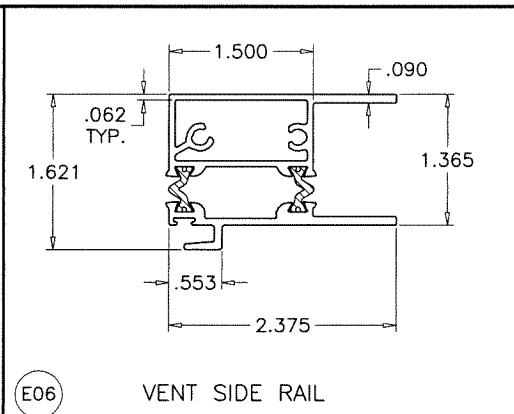
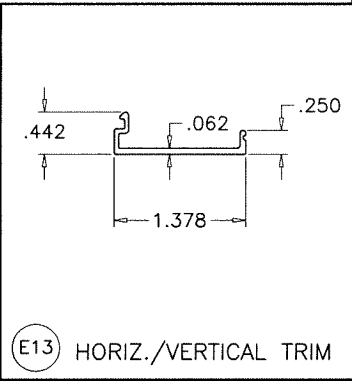
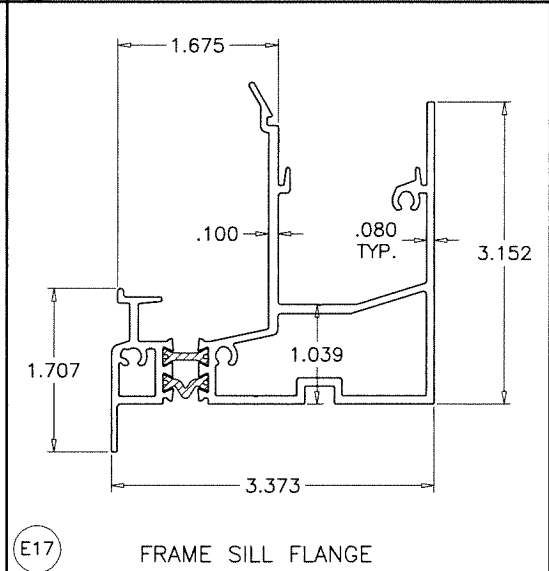
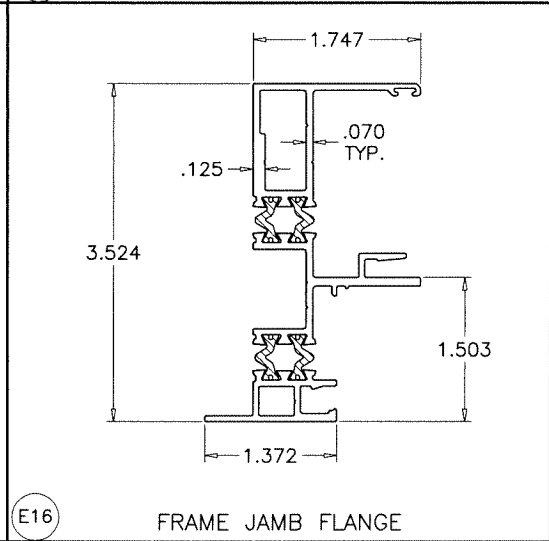
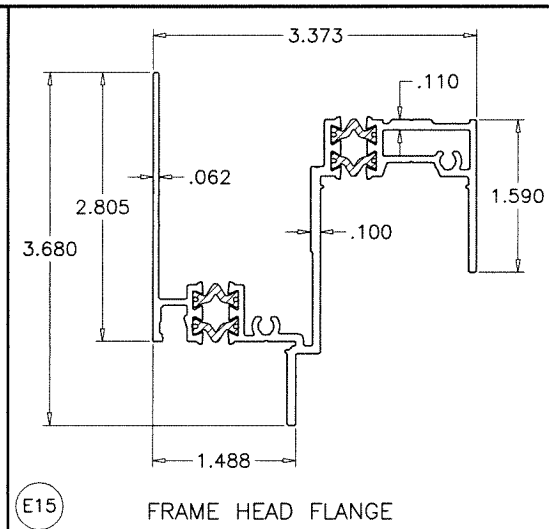
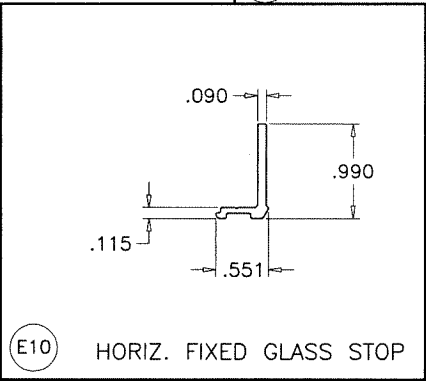
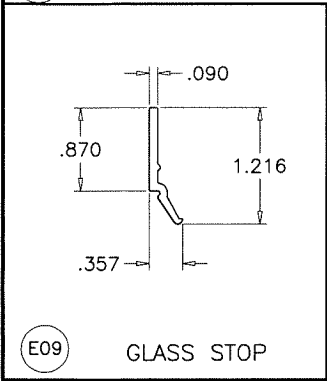
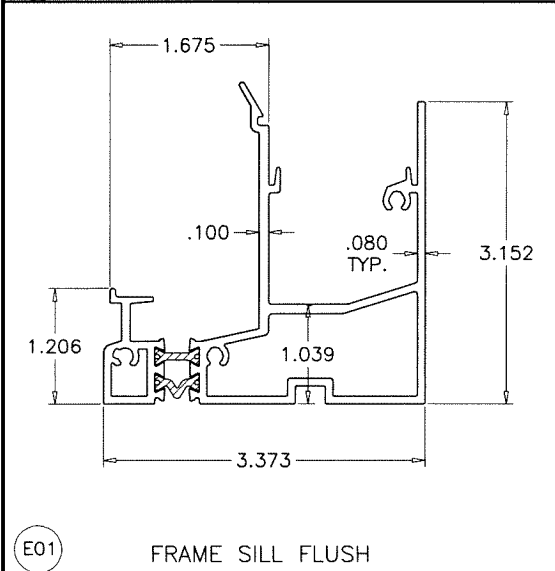
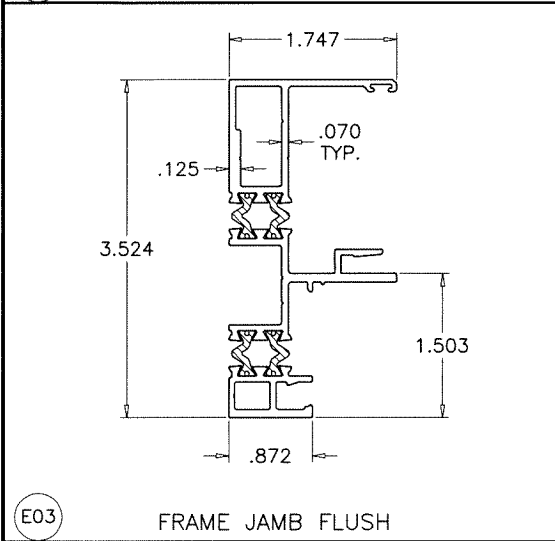
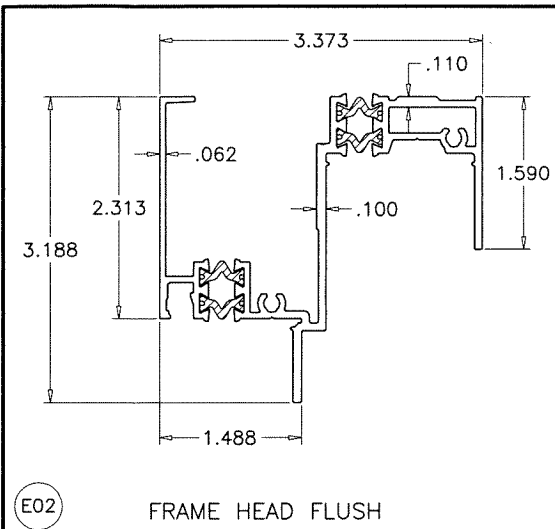
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FL #20383

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drawing no. **W16-23**  
sheet 12 of 14



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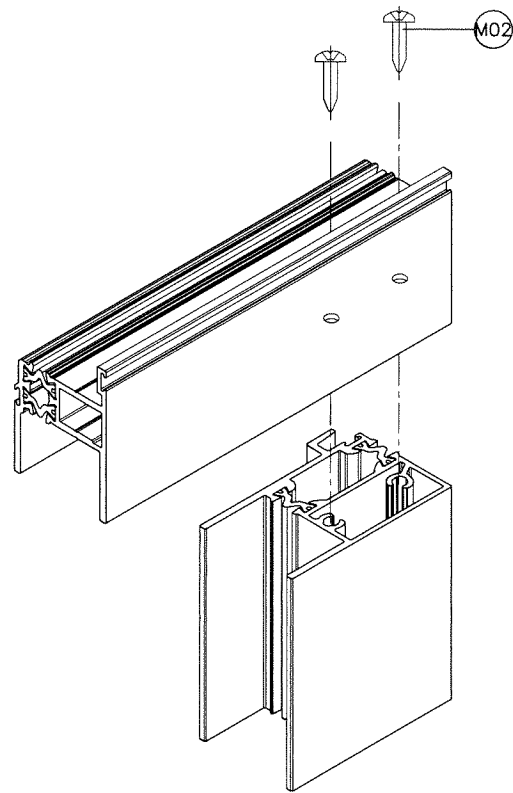
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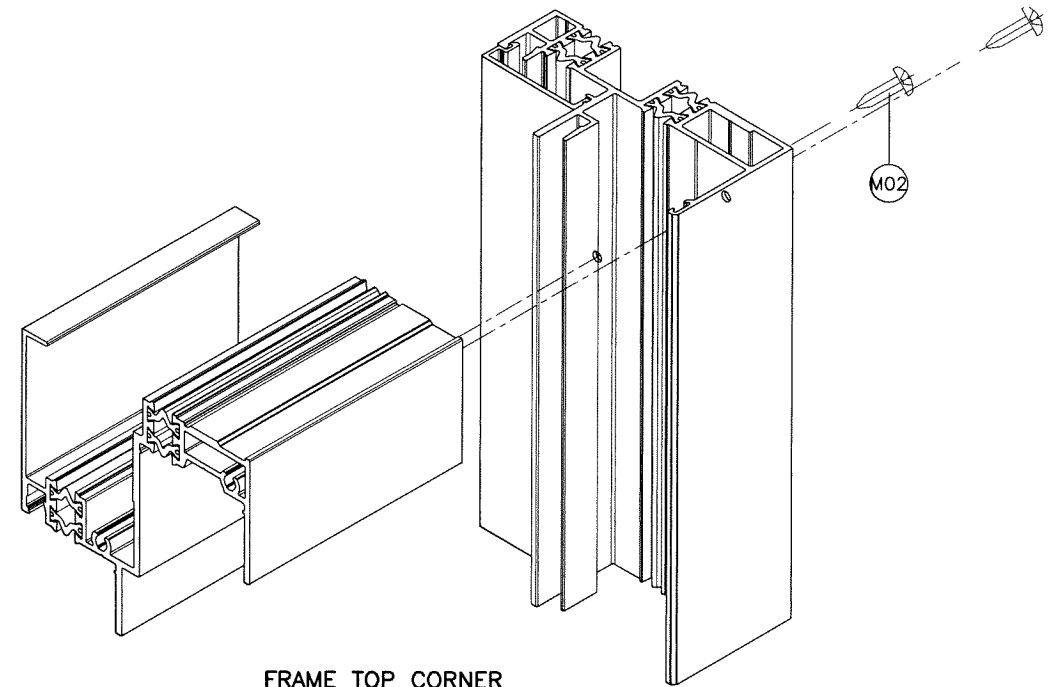
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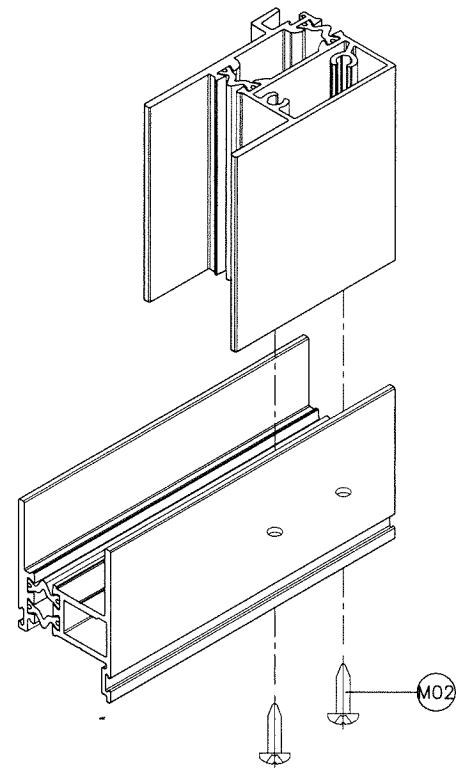
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<b>W16-23</b>	



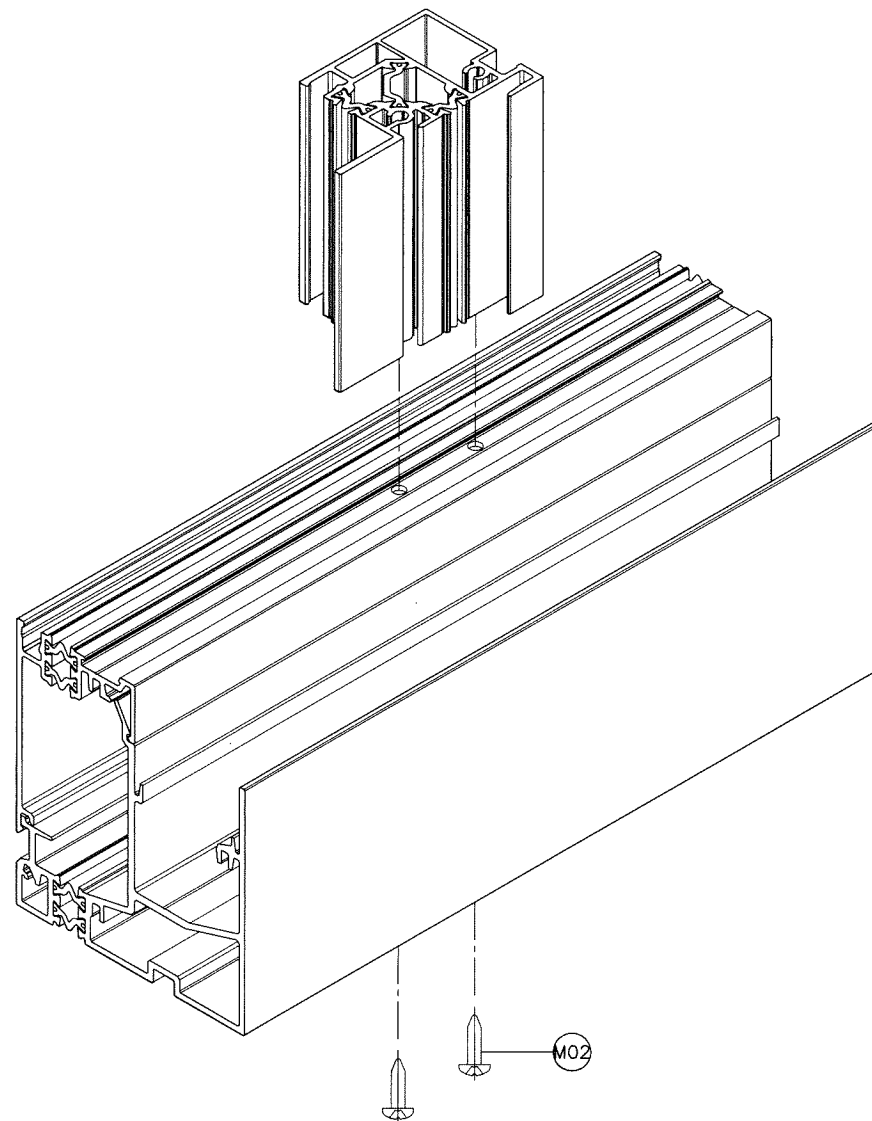
VENT TOP CORNERS



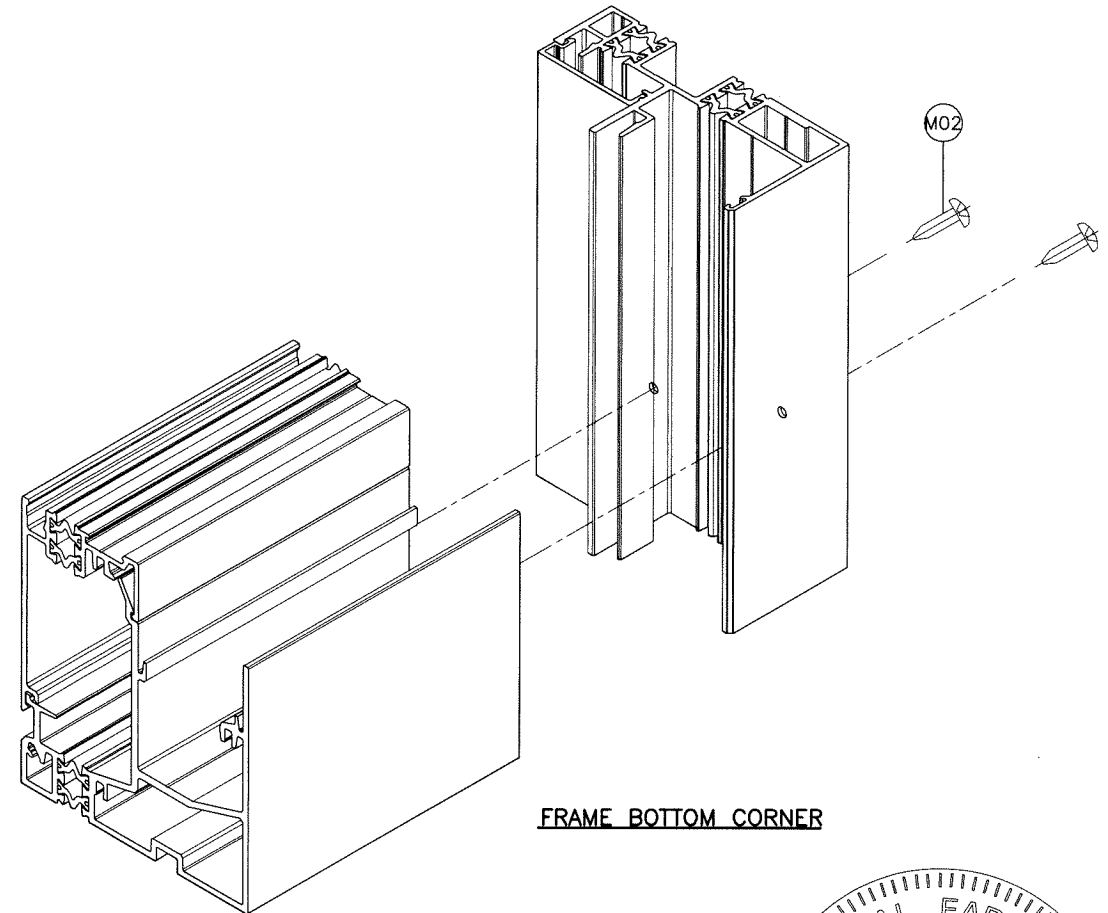
FRAME TOP CORNER



VENT BOTTOM CORNERS



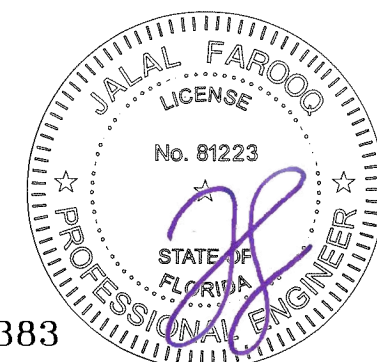
FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

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FL #20383



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no	description	no	date	1/2" = 1"	1/2" = 1"	TARIQ			

drawing no.  
**W16-23**  
 sheet 14 of 14